(FILE 'HOME' ENTERED AT 11:23:47 ON 29 MAY 2006)

FILE 'REGISTRY' ENTERED AT 11:24:52 ON 29 MAY 2006

```
L1             1 S SODIUM HYDRIDE/CN
L2             1 S POTASSIUM HYDRIDE/CN
L3             0 S LITIUM HYDRIDE/CN
L4             1 S LITHIUM HYDRIDE/CN
L5             3 S CALCIUM HYDRIDE/CN
L6             2 S MAGNESIUM HYDRIDE/CN
L7             1 S ALUMINUM HYDRIDE/CN
L8             1 S LITHIUM ALUMINUM HYDRIDE/CN
L9             1 S VENLAFAXINE/CN
L10            0 S 4-METHOXYPHENYLACETONITRILE/CN
L11            0 S 4-METHOXYPHENYL-1-ACETONITRILE/CN
L12            0 S 4METHOXYBENZYLACETONITRILE/CN
L13            0 S 4-METHOXYBENZYLACETONITRILE/CN
L14              STRUCTURE UPLOADED
L15            5 S L14
L16              STRUCTURE UPLOADED
L17            0 S L16
L18           23 S L16 FUL
L19            1 S 4-METHOXYBENZENEACETONITRILE/CN
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FILE 'CAPLUS, CAOLD' ENTERED AT 11:37:47 ON 29 MAY 2006

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L20         3095 S L1
L21          968 S L2
L22         3530 S L1 OR L2
L23          435 S L21 NOT L20
L24        12281 S L1 OR L2 OR L4 OR L5 OR L6 OR L7 OR L8
L25          190 S L24 AND CYCLOHEXANONE
L26            2 S L25 AND L9
L27            2 S L24 AND L9
L28            0 S L27 NOT L26
L29           44 S L19 AND CYCLOHEXANONE
L30           16 S L29 AND L9
L31            3 S L30 AND HYDRIDE
L32            1 S L31 NOT L27
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=> d l14
L14 HAS NO ANSWERS
L14              STR
```

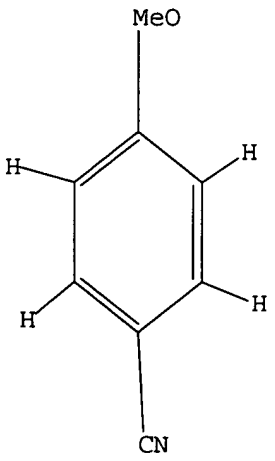

Structure attributes must be viewed using STN Express query preparation.

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=> d l16
L16 HAS NO ANSWERS
L16              STR
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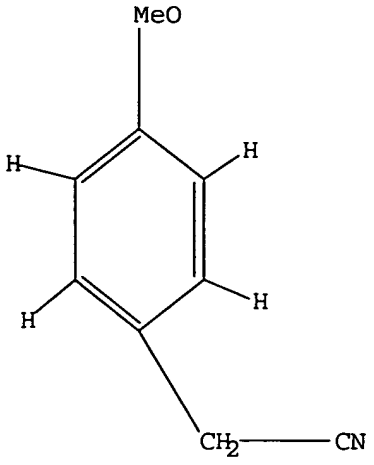
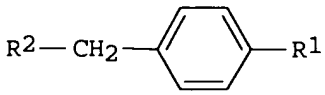


Structure attributes must be viewed using STN Express query preparation.

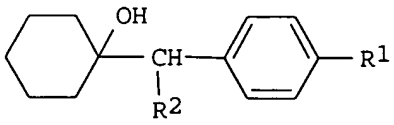
L26 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:451678 CAPLUS
DN 141:23295
TI Process for the preparation of cyclohexanol derivatives
IN Lan, Zhiyin; Shi, Kaiyun; Mo, Qizhuang; Li, Yulin
PA Peop. Rep. China
SO U.S. Pat. Appl. Publ., 6 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004106818	A1	20040603	US 2003-638845	20030811
	CN 1504456	A	20040616	CN 2002-153015	20021129
PRAI	CN 2002-153015	A	20021129		

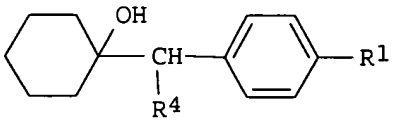
OS CASREACT 141:23295; MARPAT 141:23295
GI



I



II



III

AB A reaction of a para-substituted aryl compound I [R1 = OH, OMe; R2 = CN, CONH2, CONHMe, CONMe2] with **cyclohexanone** is facilitated by a metal hydride, such as NaH, KH, LiH, MgH2, CaH2, AlH3, and/or LiAlH4 to make first intermediates II [R1 = OH, OMe; R2 = CN, CONH2, CONHMe, CONMe2] useful in producing a drug commonly known as Venlafaxine. Alternatively, lithium diisopropylamide (diisopropylamino lithium) may be used in place of the metal hydride. The first intermediates II may be further reacted to form second intermediates III [R1 = OH, OMe; R4 = CH2NH2] in a reduction that is facilitated by Raney nickel or a metal hydride. These reaction processes may each occur in an organic solvent, which delivers highly pure reaction products in high yield. Thus, reacting p-MeOC6H4CH2CN with **cyclohexanone** in the presence of NaH afforded 80% II [R1 = OMe; R2 = CN]. The latter was hydrogenated over Raney Ni to give 83% III [R1 = OMe; R4 = CH2NH2].

L26 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:425466 CAPLUS
DN 133:17266
TI Synthesis of 1-[2-amino-1-(p-methoxybenzyl)ethyl]cyclohexanol
IN Cheng, Guohou; Zhuo, Chao
PA East China Science & Engineering Univ., Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
CODEN: CNXXEV
DT Patent
LA Chinese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1225356	A	19990811	CN 1998-122097	19981215
PRAI	CN 1998-122097		19981215		

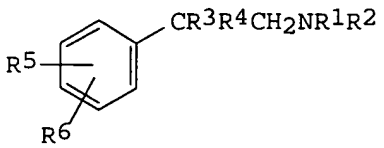
OS CASREACT 133:17266

AB The process comprises allowing to react 4-methoxyphenylacetonitrile with organic base at 0-5° for 0.5-2 h, adding with **cyclohexanone** at 0-5° for 2-4 h to obtain 1-(α-cyano-4-methoxybenzyl)cyclohexanol (I), and mixing with NaBH4 in solvent for 3-5 h, adding 40-50% BF3.etherate solution in 3-5 h, and refluxing for 1-3 h. The organic base is selected from one or more of NaOMe, NaOEt, NaNH2, and NaH. The mole ratio of 4-methoxyphenylacetronitrile-**cyclohexanone** - organic base is 1:1-1.3:1-1.3, and that of I-NaBH4-BF3.etherate is 1:0.9-1:1-1.12. The title compound is useful as intermediate for synthesis of the antidepressant venlafaxine.

L32 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1985:5895 CAPLUS
DN 102:5895
TI Phenethylamine derivatives and intermediates
IN Husbands, George Edward Morris; Yardley, John Patrick; Muth, Eric Anthony
PA American Home Products Corp., USA
SO Eur. Pat. Appl., 58 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 112669	A2	19840704	EP 1983-307435	19831207
	EP 112669	A3	19841128		
	EP 112669	B1	19870729		
	R: AT, BE, CH, DE, FR, IT, LI, LU, NL, SE				
	US 4535186	A	19850813	US 1983-545701	19831026
	CA 1248540	A1	19890110	CA 1983-441289	19831116
	AU 8322123	A1	19840621	AU 1983-22123	19831206
	AU 567524	B2	19871126		
	ZA 8309073	A	19840926	ZA 1983-9073	19831206
	IL 70390	A1	19861231	IL 1983-70390	19831206
	GB 2133788	A1	19840801	GB 1983-32598	19831207
	GB 2133788	B2	19870715		
	AT 28628	E	19870815	AT 1983-307435	19831207
	FI 8304523	A	19840614	FI 1983-4523	19831209
	FI 77647	B	19881230		
	FI 77647	C	19890410		
	DK 8305713	A	19840614	DK 1983-5713	19831212
	DK 166372	B	19930419		
	DK 166372	C	19930906		
	HU 33097	O	19841029	HU 1983-4231	19831212
	HU 199104	B	19900129		
	ES 527938	A1	19870101	ES 1983-527938	19831212
	JP 59116252	A2	19840705	JP 1983-235979	19831213
	JP 04012260	B4	19920304		
	US 4611078	A	19860909	US 1985-736747	19850522
	US 4761501	A	19880802	US 1985-736744	19850522
	ES 544402	A1	19880401	ES 1985-544402	19850531
	GB 2173787	A1	19861022	GB 1986-3901	19860217
	GB 2173787	B2	19870715		
	JP 03135948	A2	19910610	JP 1990-267502	19901003
	JP 04040339	B4	19920702		
	JP 03178953	A2	19910802	JP 1990-267501	19901003
	JP 05030826	B4	19930511		
PRAI	US 1982-449032	A	19821213		
	US 1983-486594	A	19830419		
	GB 1983-16646	A	19830618		
	US 1983-545701	A	19831026		
	EP 1983-307435	A	19831207		
	GB 1983-32598	A3	19831207		

OS CASREACT 102:5895; MARPAT 102:5895
GI



I

AB About 35 I [R1 = H, C1-6 alkyl; R2 = C1-6 alkyl; R3 = optionally unsatd. 1-hydroxycycloalkyl, optionally unsatd. 1-alkoxycycloalkyl, 1-cycloalkenyl; R4 = H, C1-6 alkyl; R5, R6 = H, OH, C1-6 alkyl, alkoxy,

alkanoyloxy, -CN, NO2, alkylthio, NH2, alkylamino, dialkylamino, carboxamido, halo, CF3; R5R6 = methylenedioxy], antidepressants, were prepared E.g., p-MeOC6H4CH2CN in THF was treated with BuLi at -70°, then condensed with **cyclohexanone** at -50° to give 1-[cyano(p-methoxyphenyl)methyl]cyclohexanol (II). II was hydrogenated in NH3-EtOH over 5% Rh on Al2O3, then methylated with HCHO and HCO2H to give 1-[(2-dimethylamino)-1-(4-methoxyphenyl)ethyl]cyclohexanol (III). III showed an activity equal to imipramine in synaptosomal NE and 5-HT uptake inhibition. Also, unlike the tricyclic antidepressants, III and related compds. demonstrate neither muscarinic anticholinergic activity nor antihistaminic activities.